

## TOYOTA MOTOR CORPORATION

**EXECUTIVE ORDER A-014-0439** New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODE		T GROU	IP	VEHICLE TYPE		UST EMISSION ARD CATEGORY	FUEL TYPE  Gasoline				
2002	2 211	XT03.0FF	·P	3751 – 5750 Pounds Loaded Vehicle Weight Light-Duty Truck	Low E	mission Vehicle (LEV)					
No.	EVAPORATIVE FAMILY (EVAP)		No.	SPECIAL FEATURE EMISSION CONTROL SYS		* = not applicable	TWC = 3-way catalytic converter WUTWC = warm-up TWC ADSTWC = adsorber TWC OC = oxidation catalytic converter O2S = oxygen sensor HO2S = heated O2S EGR = exhaust gas recirculation AFS = air fuel ratio sensor PAIR = pulsed AIR				
1	2TYXR0	50AK1	1	2WUTWC, TWC, 2	A/FS, HO2S, SFI,						
2	•		2		•						
3	*		3		*	MFI = multiport fuel injection   SFI = sequential MF   TC/SC = turbo/super charger   CAC = charge air coole   OBD (F) / OBD (P) = on-board diagnosis; full / partial   compliance   (prefix) 2 = parallel   (2) (suffix) = serie					
4	•		4		*						
EVAI No.	P ECS No.	ENGII SIZE			VEHICLES SUBJ	ECT TO SFTP					
1	1 3.										
•	*	* •									
*	•	• •		•							
*	•	•				•					

The exhaust and evaporative emission standards (STD) and certification emission levels (CERT) for the listed vehicles are as follows. Any debit in the manufacturer's compliance plan for "NMOG Fleet Average" (passenger cars and light-duty trucks) or "Vehicle Equivalent Credit" (medium-duty vehicles) shall be equalized as required. The 50° Fahrenheit standards and CERT levels are listed below or compliance has been met based on the manufacturer's submitted compliance plan in lieu of actual testing.

	NMOG FLEET AVERAGE [g/mi]		NMOG [g/mi] @RAF = 0.94			CH4 = methane NMOG = non-CH4 organic gas NMHC = non-CH4 hydrocarbon CO = carbon monoxide NOx = oxides of nitrogen HCHO = formaldehyde PM = particulate matter RAF = reactivity adjustment factor											
CERT	re	0.095 @ 50K @ 100K		CH4 R		CO [g/mi]			NOx [g	/mi}	HCHO [mg/ml]		PM [g/mi]		ij	Hwy NOx [g/mi]	
0.100	0.0			ERT	0.100 0.130	0.9 1.1	STD	CE	ERT :	STD	CERT 1	STD 18 23	CERT	r   8	STD	CERT	0.5 0.7
K = 1000 miles	(			.045			4.4		0.1	0.4 0.5					•	0.1	
	@			0.052			5.5		0.2					-	*	0.1	
	@ 50°F, 4K		*			•			•	•	•	*	•		•	•	•
	O [g/mi] 20°F, 50K			g = gram mg = milligram mi = mile		NMHC+NOx [g/mi] (composite)		ii] N	NMHC+NOx [g/mi] [US06]		CO [g/mi] [US06]		NMHC+NOx [g/mi] [SC03]		[g/mi]	CO [g/mi] (SC03)	
CERT	ST	STD				CERT	STD		CERT	STD	CERT	ERT STD	CERT		STD	CERT 0.3	STD 3.5
5.5	12	12.5			@ 4K		*		0.19	0.25	2.0	10.5	0.06	0.27			
F = degre	e Fahrenh	ahrenheit		@ 120K		•			•	•	*	*	•	•		•	4
@ 100K	EV	EVAPORATIVE FAMILY 1				EVAPORATIVE FAMILY 2 E				VAPORATIVE FAMILY 3			EVAPORATIVE FAMILY 4				
	3-D	2-D	ŧ	RL	ORVR	3-D	2-D	RL.	ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR
CERT	0.6	0.8		0.03	0.01	+	*	*	•	*	•	*	•	•	•	•	•
STD	2.0	2.5		0.05	0.20	*	•	*	•	•		•	•	•	•	•	•
2-D, 3-D [g	g/test] = 2-	day, 3-d	lay d	ilurnal a	nd hot-soak		RL [g/m	j = runn	ing loss	<u> </u>	ORVR [g/g:	illon of fuel	dispense	d] = on-l	board ref	ueling vapo	recovery

BE IT FURTHER RESOLVED: That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 (labeling), 1968.1 or 1968.1(m)(6.2) (on-board diagnostic systems; full or partial compliance), 2035 et seq. (emission control warranty), 2235 (fuel tank fill pipes and openings), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles).

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 2 day of July 2001.

R. B. Summerfield, Chie Mobile Source Operations Division